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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/543,951 04/06/2000		Wiliam S. Dalton	1633-015A	7898		
	7590 08/01/2002					
Bradley N Ruben			EXAMINER			
463 First Street Suite 5a			RODGERS, MATTHEW E			
Hoboken, NJ 07030			ART UNIT	PAPER NUMBER		
		·	3677			
		DATE MAIL ED. 09/01/2002				

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) DALTON ET AL.	المحاد					\			
Examiner			Application	No.	Applicant(s)	P			
## Watthew E. Rodgers 3977 ## Wa			09/543,951		DALTON ET AL.	•			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estantions of time may be available under the provisions of 3 CSR 1.136(a). In or event, however, may a reply be timely fitted if the period for reply specified above is less time interior (20) says, as reply with the statution yield of the period for reply specified above is less time interior (20) says, as reply with the statution of the period for reply specified above. The maintain statutory period all application to interior and period timely interior and period for reply specified above. The maintain statutory period all application to become AbANICHED (30 U.S.C. § 133). **Responsive to communication(s) filed on 18 July 2002 . 2a		Office Action Summary	Examiner		Art Unit	 -			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Set Set Set of the Complete annihilation and in the provision of 3°C FX 1.38(a). In no event, however, may a reply be limitely filled set of the Complete annihilation and the provision of 3°C FX 1.38(a). In no event, however, may a reply be limitely filled set of the complete annihilation and the provision of 3°C FX 1.38(a). In no event, however, may a reply be limitely filled annihilation of the complete annihilation and the						· <u> </u>			
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CFR 1.13(d). In no event, however, may a reply be timely filed after SX (6) MONTES from the mailing date of this communication. It is a provision of the provision of the communication of the communic		• •	pears on the c	over sheet with the c	correspondence address				
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(e) 10 Notice of References Cited (PTO-982) 21 Notice of Informal Patent Application (PTO-153)	A SHO THE I - Exter after - If the - If NO - Failui - Any r eame	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or to treply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing	36(a). In no event y within the statuto will apply and will e t, cause the applica	, however, may a reply be tin ry minimum of thirty (30) day xpire SIX (6) MONTHS from tion to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	ation.			
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandon et al (USPN 5,810,365) in view of Bagepalli et al (USPN 6,030,175). Brandon shows a retractable packing segment disposed in a ring and centered on an axis defined by a shaft of a turbine, the packing segment having an inner face (13), and an outer face supporting a T-shaped extension (13a, 13c). The inner and outer faces and the T-shaped extension span opposing side ends of the segments, the side ends cut parallel with the radii of the axis of the shaft. Brandon also shows labyrinth seal structure having a plurality of fins (14) on the inner face of the segments that extend different distances from the inner face. However, Brandon does not show a brush seal.

Bagepalli teaches the use of a brush seal in cooperation with a labyrinth seal in a hybrid segmented packing assembly for the purpose of limiting gas-path leakage into or out of the gas path of a turbine (col. 1, lines 10-29). Bagepalli shows at least one brush seal (54) disposed on the inner face of the segment, the opposing ends (48, 50) of the inner face cut parallel with the radii of the axis of the shaft, and the brush seal having opposing ends cut non-parallel with the radii of the axis of the shaft. The brush seal is formed in the geometry of a ring formed from a plurality of adjacent abutting packing segments (10). One of the opposing ends of the brush seal are cut angled to form a tongue extending past the segment end (60). The other of the opposing

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ends cut to form a channel (46) to accept a tongue formed by a brush seal on another packing

segment.

Therefore, it would have been obvious to one with ordinary skill in the art at the time the

invention was made to make the seal of Brandon incorporating a brush seal with opposing ends

cut non-parallel with the radii of the axis of the shaft.

Response to Arguments

Applicant's arguments with respect to claims 1-9 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew E. Rodgers whose telephone number is (703) 306-3406.

The examiner can normally be reached on regular work hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, J. J. Swann can be reached on (703) 306-4115. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9326 for regular

communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-2168.

MR

July 29, 2002

J. J. SWANN SUPERVISORY PATENT EXAMINER

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